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... for analysis. In a sense, our video analysis and browsing features using a timeline bar and sets of representative frames provides ...

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... that users might use the notes feature to bookmark ... record their thoughts regarding the content of the video. ... the shot boundary frames and the timeline markers. ...

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... Figure 2: The prototype with a **video**-film play- ing. ... quickly to another part of the film using a **timeline**. Figure 3: **Barcodes** are associated to the films and ...

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... added to an iPAQ together with a **bar code** reader ... A paper representation shows those images on a **time line** with a ... readable code that can activate the **video** replay ... Cited by 23 - Related articles - All 10 versions

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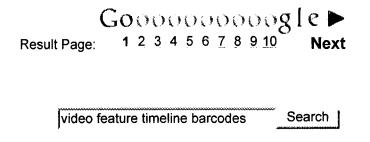
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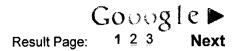
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↑ ABSTRACT

This paper presents methods for automatically creating pictorial video summaries that resemble comic books. The relative importance of video segments is computed from their length and novelty. Image and audio analysis is used to automatically detect and emphasize meaningful events. Based on this importance measure, we choose relevant keyframes. Selected keyframes are sized by importance, and then efficiently packed into a pictorial summary. We present a quantitative measure of how well a summary captures the salient events in a video, and show how it can be used to improve our summaries. The result is a compact and visually pleasing summary that captures semantically important events, and is suitable for printing or Web access. Such a summary can be further enhanced by including text captions derived from OCR or other methods. We describe how the automatically generated summaries are used to simplify access to a large collection of videos.

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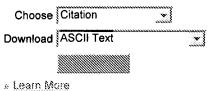
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Pivot vector space approach for audio-video mixing

Mulhem, P. Kankanhalli, M.S. Ji Yi Hassan, H. Nat. Center of Sci. Res., Grenoble, France;

This paper appears in: Multimedia, IEEE

Publication Date: April-June 2003

Volume: 10, <u>Issue: 2</u> On page(s): 28- 40 ISSN: 1070-986X

INSPEC Accession Number: 7605567

Digital Object Identifier: 10.1109/MMUL.2003.1195159

Current Version Published: 2003-04-22

Abstract

An audio-mixing artist usually adds the musical accompaniment to video. Employing such and not feasible for a home video presentation. Our automatic audio-video mixing techniquideos. It uses a pivot vector space mapping method that matches video shots with music aesthetic cinematographic heuristics.

Index Terms

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Controlled Indexing

audio_signal_processing cinematography feature extraction image_matching \(\nu\) processing

Non-controlled Indexing

aesthetic cinematographic heuristics <u>automatic audio-video mixing</u> home video sequence <u>matching</u> perceptual features extraction pivot vector space mapping matching

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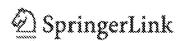
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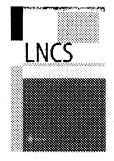
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Abstract

Video sequences retrieved from a database need to be presented in a compact, meaningful way in order to enable users to understand and visualise the contents presented. In this paper we propose a visual representation that exploits the multi-modal content of video sequences by representing retrieved video sequences with a set of multi-modal feature-maps arranged in a temporal order. The feature-map is a 'collage' represented as a visual icon that shows: the perceptual content such as a key-frame image, the cinematic content such as the type of camera work, some auditory content that represents the type of auditory information present in the sequence, temporal information that shows the duration of the sequence and its offset within the video.

The authors wish to acknowledge that this work was carried out within the Cooperative Research Centre for Advanced Computational Systems established under the Australian Government's Cooperative Research Centres Program.